

IN THE CLAIMS

1. (canceled)

2. (canceled)

3. (canceled)

4. (canceled)

5. (canceled)

6. (canceled)

7. (canceled)

8. (canceled)

9. (previously presented) An optical glass consisting ~~essentially~~ of, in mass %,

SiO₂ 40-70%

PbO 14-50%

Na₂O and /or K₂O in the total amount of 8- 17%

where

Na₂O 5-14%

and

K₂O 0-15%

B₂O₃ 0- 5%

As₂O₃ 0- 1%

Sb₂O₃ 0- 1%

TiO₂ 0-0.2%

Al₂O₃ 0- 0.4% and

BaO 0- 5%

fluoride or fluorides substituting for the above oxide or oxides partially entirely, a total amount of fluorine contained in the fluorides being 0-2%.

10. (currently amended) An optical glass ~~as defined in claim 9~~ consisting of comprising, in mass %,

SiO₂ 40-70%

PbO 14-50%

Na₂O and /or K₂O in the total amount of 8- 17%

| | |
|------------------------------------|--------------------|
| <u>where</u> | |
| <u>Na₂O</u> | <u>5-14%</u> |
| <u>and</u> | |
| <u>K₂O</u> | <u>0-15%</u> |
| <u>B₂O₃</u> | <u>0- 5%</u> |
| <u>As₂O₃</u> | <u>0- 1%</u> |
| <u>Sb₂O₃</u> | <u>0- 1%</u> |
| <u>TiO₂</u> | <u>0-0.2%</u> |
| <u>Al₂O₃</u> | <u>0- 0.4% and</u> |
| <u>BaO</u> | <u>0- 5%</u> |

fluoride or fluorides substituting for the above oxide or oxides partially entirely, a total amount of fluorine contained in the fluorides being 0-2%[[.]]

| | |
|-------------------|-------|
| Li ₂ O | 0- 2% |
| CaO | 0- 2% |
| SrO | 0- 2% |

the total amount of one or more of the ~~LiO₂~~, Li₂O, CaO, SrO, BaO and Al₂O₃ ingredients being 5% or below.

11. (previously presented) An optical glass as defined in claim 9 or 10 wherein an amount of change in refractive index (Δn : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

12. (canceled)

13. (previously presented) An optical glass as defined in claim 9 or 10 comprising, in mass %, a total amount of 0.1-2% fluoride as the fluorides as the fluorine ingredient and/or 0.001-0.2% of TiO₂ as the titanium oxide ingredient and/or 0.001 – 1% As₂O₃ as the arsenic oxide ingredient.

14. (new) A method of making an optical glass for lenses of an optical system of an i'line stepper comprising employing an optical glass comprising , in mass %:%,

| | |
|---|-------------|
| SiO ₂ | 40-70% |
| PbO | 14-50% |
| Na ₂ O and /or K ₂ O in the total amount of | 8- 17% |
| where | |
| Na ₂ O | 5-14% |
| and | |
| K ₂ O | 0-15% |
| B ₂ O ₃ | 0- 5% |
| As ₂ O ₃ | 0- 1% |
| Sb ₂ O ₃ | 0- 1% |
| TiO ₂ | 0-0.2% |
| Al ₂ O ₃ | 0- 0.4% and |
| BaO | 0- 5% |

fluoride or fluorides substituting for the above oxide or oxides partially entirely, a total amount of fluorine contained in the fluorides being 0-2%[[.]]

| | |
|-------------------|-------|
| Li ₂ O | 0- 2% |
| CaO | 0- 2% |
| SrO | 0- 2% |

the total amount of one or more of the LiO₂, CaO, SrO, BaO and Al₂O₃ ingredients being 5% or below